

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|-------|------------------------------------|--|------------------|---------|------------------|
| L1 | 4221 | 707/201 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/11/16 11:13 |
| L2 | 4345 | 370/254 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/11/16 11:13 |
| L3 | 6668 | 709/201 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/11/16 11:13 |
| L4 | 3162 | 709/213 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/11/16 11:13 |
| L5 | 4960 | 709/228 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/11/16 11:13 |
| L6 | 3162 | 709/213 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/11/16 11:14 |
| L7 | 67475 | data adj transfer | USPAT | OR | OFF | 2007/11/16 11:14 |
| L8 | 0 | 1 and 2 and 3 and 4 and 5 and (L7) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/11/16 11:14 |

EAST Search History

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|-----|-----|-------------------------|--|----|----|------------------|
| L9 | 155 | shar\$3 near5 violation | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/11/16 11:14 |
| L10 | 1 | 6 and L9 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/11/16 11:15 |

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|---------|--|-------|------------------|---------|------------------|
| S1 | 52187 | data adj transfer | USPAT | OR | OFF | 2005/09/03 18:10 |
| S2 | 3004 | S1 and computer and ("stand-alone" or (stand adj alone)) | USPAT | OR | OFF | 2005/03/10 10:38 |
| S3 | 1875 | S2 and file | USPAT | OR | OFF | 2005/03/10 10:38 |
| S4 | 1850 | S3 and (program or application) | USPAT | OR | OFF | 2005/03/10 10:38 |
| S5 | 1655 | S4 and @ad<"20001103" | USPAT | OR | OFF | 2005/03/10 10:39 |
| S6 | 234 | S5 and (exchange adj data) | USPAT | OR | OFF | 2005/03/10 10:39 |
| S7 | 526 | synchroniza\$4 same (computer adj systems) | USPAT | OR | OFF | 2005/03/14 10:37 |
| S8 | 0 | S7 and @ad<200011-3 | USPAT | OR | OFF | 2005/03/14 10:37 |
| S9 | 482 | S7 and @ad<"20001103" | USPAT | OR | OFF | 2007/10/13 16:31 |
| S10 | 971 | "6000000" | USPAT | OR | OFF | 2005/03/14 12:02 |
| S11 | 23470 | "10" and notification | USPAT | OR | OFF | 2005/03/14 12:02 |
| S12 | 971 | "6000000" | USPAT | OR | OFF | 2005/03/14 12:08 |
| S13 | 19 | S12 and notification | USPAT | OR | OFF | 2005/03/14 12:02 |
| S14 | 1 | "6671700" | USPAT | OR | OFF | 2005/03/14 12:45 |
| S15 | 1465 | "19" and (read same notification) | USPAT | OR | OFF | 2005/03/14 12:45 |
| S16 | 0 | S13 and (read same notification) | USPAT | OR | OFF | 2005/03/14 12:45 |
| S17 | 0 | ((open adj file) or read) same notif&6 | USPAT | OR | OFF | 2005/03/14 12:46 |
| S18 | 5026 | ((open adj file) or read) same notifi\$8 | USPAT | OR | OFF | 2005/03/14 12:46 |
| S19 | 2426316 | "9" and @ad<"20001103" | USPAT | OR | OFF | 2005/03/14 12:47 |
| S20 | 4411 | S18 and @ad<"20001103" | USPAT | OR | OFF | 2005/03/14 12:47 |
| S21 | 1814 | S20 and (computer same systems) | USPAT | OR | OFF | 2005/03/14 12:47 |
| S22 | 1116 | S21 and message | USPAT | OR | OFF | 2005/03/14 12:48 |
| S23 | 389 | S22 and (exchange same data) | USPAT | OR | OFF | 2005/03/14 16:22 |
| S24 | 13 | "5729726" | USPAT | OR | OFF | 2005/03/14 16:22 |
| S25 | 64 | "5729735" | USPAT | OR | OFF | 2005/03/14 16:23 |
| S26 | 25 | "5799305" | USPAT | OR | OFF | 2005/03/14 16:23 |
| S27 | 12 | "5737738" | USPAT | OR | OFF | 2005/03/14 16:24 |
| S28 | 53 | "5794229" | USPAT | OR | OFF | 2005/03/14 16:24 |
| S29 | 36 | "5806065" | USPAT | OR | OFF | 2005/03/14 16:25 |
| S30 | 29 | "5813017" | USPAT | OR | OFF | 2005/03/14 16:26 |
| S31 | 35 | "5832508" | USPAT | OR | OFF | 2005/03/14 16:27 |
| S32 | 22 | "5832515" | USPAT | OR | OFF | 2005/03/14 16:27 |

EAST Search History

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|-----|---------|--|-------|----|-----|------------------|
| S33 | 4 | "5878414" | USPAT | OR | OFF | 2005/03/14 16:28 |
| S34 | 19 | "5907848" | USPAT | OR | OFF | 2005/03/14 16:28 |
| S35 | 11 | "5913213" | USPAT | OR | OFF | 2005/03/14 16:28 |
| S36 | 19 | "5944789" | USPAT | OR | OFF | 2005/03/14 16:29 |
| S37 | 5 | "5953728" | USPAT | OR | OFF | 2005/03/14 16:29 |
| S38 | 20 | "5966706" | USPAT | OR | OFF | 2005/03/14 16:30 |
| S39 | 29 | "5966707" | USPAT | OR | OFF | 2005/03/14 16:30 |
| S40 | 23 | "5987477" | USPAT | OR | OFF | 2005/03/14 16:30 |
| S41 | 13 | "6038563" | USPAT | OR | OFF | 2005/03/14 16:31 |
| S42 | 4 | "6061683" | USPAT | OR | OFF | 2005/03/14 16:31 |
| S43 | 1 | "6671700" | USPAT | OR | OFF | 2005/09/03 16:54 |
| S44 | 3 | "6633924" | USPAT | OR | OFF | 2005/09/03 16:54 |
| S45 | 54335 | data adj transfer | USPAT | OR | OFF | 2005/09/03 18:10 |
| S46 | 3169 | S45 and computer and ("stand-alone" or (stand adj alone)) | USPAT | OR | OFF | 2005/09/03 18:10 |
| S47 | 1974 | S46 and file | USPAT | OR | OFF | 2005/09/03 18:10 |
| S48 | 1949 | S47 and (program or application) | USPAT | OR | OFF | 2005/09/03 18:10 |
| S49 | 1688 | S48 and @ad<"20001103" | USPAT | OR | OFF | 2005/09/03 18:10 |
| S50 | 237 | S49 and (exchange adj data) | USPAT | OR | OFF | 2005/09/03 18:10 |
| S51 | 545 | synchroniza\$4 same (computer adj systems) | USPAT | OR | OFF | 2005/09/03 18:10 |
| S52 | 0 | S51 and @ad<200011-3 | USPAT | OR | OFF | 2005/09/03 18:10 |
| S53 | 487 | S51 and @ad<"20001103" | USPAT | OR | OFF | 2005/09/03 18:10 |
| S54 | 999 | "6000000" | USPAT | OR | OFF | 2005/09/03 18:10 |
| S55 | 25413 | "10" and notification | USPAT | OR | OFF | 2005/09/03 18:10 |
| S56 | 999 | "6000000" | USPAT | OR | OFF | 2005/09/03 18:10 |
| S57 | 20 | S56 and notification | USPAT | OR | OFF | 2005/09/03 18:10 |
| S58 | 1 | "6671700" | USPAT | OR | OFF | 2005/09/03 18:10 |
| S59 | 1583 | "19" and (read same notification) | USPAT | OR | OFF | 2005/09/03 18:10 |
| S60 | 0 | S57 and (read same notification) | USPAT | OR | OFF | 2005/09/03 18:10 |
| S61 | 0 | ((open adj file) or read) same notif&6 | USPAT | OR | OFF | 2005/09/03 18:10 |
| S62 | 5321 | ((open adj file) or read) same notifi\$8 | USPAT | OR | OFF | 2005/09/03 18:10 |
| S63 | 2431739 | "9" and @ad<"20001103" | USPAT | OR | OFF | 2005/09/03 18:10 |
| S64 | 4496 | S62 and @ad<"20001103" | USPAT | OR | OFF | 2005/09/03 18:10 |
| S65 | 1846 | S64 and (computer same systems) | USPAT | OR | OFF | 2005/09/03 18:10 |
| S66 | 1143 | S65 and message | USPAT | OR | OFF | 2005/09/03 18:10 |

EAST Search History

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|-----|----------|------------------------------------|---|----|-----|------------------|
| S67 | 396 | S66 and (exchange same data) | USPAT | OR | OFF | 2005/09/03 18:10 |
| S68 | 14 | "5729726" | USPAT | OR | OFF | 2005/09/03 18:10 |
| S69 | 70 | "5729735" | USPAT | OR | OFF | 2005/09/03 18:10 |
| S70 | 26 | "5799305" | USPAT | OR | OFF | 2005/09/03 18:10 |
| S71 | 13 | "5737738" | USPAT | OR | OFF | 2005/09/03 18:10 |
| S72 | 54 | "5794229" | USPAT | OR | OFF | 2005/09/03 18:10 |
| S73 | 37 | "5806065" | USPAT | OR | OFF | 2005/09/03 18:10 |
| S74 | 31 | "5813017" | USPAT | OR | OFF | 2005/09/03 18:10 |
| S75 | 36 | "5832508" | USPAT | OR | OFF | 2005/09/03 18:10 |
| S76 | 28 | "5832515" | USPAT | OR | OFF | 2005/09/03 18:10 |
| S77 | 4 | "5878414" | USPAT | OR | OFF | 2005/09/03 18:10 |
| S78 | 25 | "5907848" | USPAT | OR | OFF | 2005/09/03 18:10 |
| S79 | 11 | "5913213" | USPAT | OR | OFF | 2005/09/03 18:10 |
| S80 | 24 | "5944789" | USPAT | OR | OFF | 2005/09/03 18:10 |
| S81 | 5 | "5953728" | USPAT | OR | OFF | 2005/09/03 18:10 |
| S82 | 22 | "5966706" | USPAT | OR | OFF | 2005/09/03 18:10 |
| S83 | 30 | "5966707" | USPAT | OR | OFF | 2005/09/03 18:10 |
| S84 | 25 | "5987477" | USPAT | OR | OFF | 2005/09/03 18:10 |
| S85 | 13 | "6038563" | USPAT | OR | OFF | 2005/09/03 18:10 |
| S86 | 4 | "6061683" | USPAT | OR | OFF | 2005/09/03 18:10 |
| S87 | 1 | "6671700" | USPAT | OR | OFF | 2005/09/03 18:10 |
| S88 | 3 | "6633924" | USPAT | OR | OFF | 2005/09/03 18:10 |
| S89 | 5 | "6633924" | USPAT | OR | OFF | 2006/01/18 10:13 |
| S90 | 3 | "6671700" | USPAT | OR | OFF | 2007/09/17 18:53 |
| S91 | 551 | "20050730" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/01/18 10:39 |
| S92 | 11493941 | @rlad<"20001103" @ad<"20001103" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2006/08/26 20:17 |
| S93 | 2680006 | (exchang\$3 transfer\$3) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2006/08/26 20:45 |

EAST Search History

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|-------|---------|---|---|----|----|------------------|
| S94 | 7064792 | data information file\$1 records folder\$1 docket\$1 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2006/08/26 20:19 |
| S95 | 492424 | S93 near5 S94 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2006/08/26 20:19 |
| S96 | 8455969 | receiv\$3 accept\$3 collect\$3 obtain\$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2006/08/26 20:27 |
| S98 | 56412 | file near5 S96 near5 S94 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2006/08/26 20:28 |
| S99 | 4578521 | notify notification\$1 indicat\$3 inform\$3 instruct\$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2006/08/26 20:29 |
| S10 8 | 182695 | S96 near10 S99 near10 S94 | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2006/08/26 20:43 |
| S10 9 | 10324 | S96 near10 S99 near10 S94 near10 (open read) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2006/08/26 20:44 |
| S11 0 | 6132 | S95 near5 (shar\$5 near5 S94) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2006/08/26 20:46 |

EAST Search History

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|----------|----|---|--|----|----|------------------|
| S11 1 | 81 | S109 and S110 and S92 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2006/08/26 20:52 |
| S11 3 | 13 | S111 and (S99 near5 file\$1) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2006/08/26 22:26 |
| S11 4 | 25 | "6538669" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2006/08/26 22:27 |
| S11 5 | 1 | "7099862" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/09/17 11:26 |
| S11 6 | 3 | "6473503" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/09/17 11:27 |
| S11 7 | 22 | "6366950" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/09/17 11:27 |
| S11 8 | 15 | ("20010027474" "20010034224" "20020016857" "20020023230" "20020035605" "20020042772" "20020083136" "20020098849" "20020178087" "20030167279" "6065012" "6073138" "6108651" "6643686" "6876983").PN. OR ("7099862").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/09/17 16:23 |
| S11 9 | 47 | "6073138" | US-PGPUB; USPAT; USOCR | OR | ON | 2007/09/17 16:25 |
| S12 0 | 1 | "20020042772" | US-PGPUB; USPAT; USOCR | OR | ON | 2007/09/17 16:25 |

EAST Search History

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|----------|----------|---|---|----|-----|------------------|
| S12 1 | 1 | "6473503".pn. | USPAT | OR | OFF | 2007/09/17 18:53 |
| S12 2 | 0 | (match\$3 with degree\$3 with similiar\$4) same database | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/09/17 18:55 |
| S12 3 | 0 | (match\$3 with similiar\$4) same database | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/09/17 18:56 |
| S12 4 | 1978 | (match\$3 with similarity) same database | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/09/17 18:56 |
| S12 5 | 88 | (match\$3 with similarity) same ((id identification) with database) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/09/17 18:59 |
| S12 6 | 14107672 | @ad<"20031222" | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/09/17 18:57 |
| S12 7 | 57 | S125 and S126 | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/09/17 18:58 |
| S12 8 | 0 | S127 and (screen near2 name) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/09/17 18:59 |
| S12 9 | 0 | (match\$3 with similarity) same ((id identification) with database) and (screen near2 name) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/09/17 18:59 |
| S13 0 | 16 | (match\$3 with similarity) and (screen near2 name) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/09/17 19:00 |

EAST Search History

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|----------|-----|--|--|----|----|------------------|
| S13 1 | 8 | S130 and S126 | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/09/17 18:59 |
| S13 2 | 251 | (match\$3 same (screen near2 name)) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/09/17 19:00 |
| S13 3 | 155 | S132 and S126 | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/09/17 19:00 |
| S13 4 | 103 | S133 and database | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/09/17 19:00 |
| S13 5 | 15 | S134 and ((contact buddy) near2 list) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/09/17 19:04 |
| S13 6 | 9 | migrate same (buddy near2 list) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/09/17 19:05 |
| S13 7 | 2 | S136 and S126 | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/09/17 19:05 |
| S13 8 | 742 | "5729735" "5799305" "5737738" "5794229" "5806065" "5813017" "5832508" "5832515" "5878414" "5907848" "5913213" "5944789" "5953728" "5966706" "5966707" "5987477" "6038563" "6061683" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/09/22 11:52 |
| S13 9 | 0 | rlad<"20001106" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/09/22 11:52 |

EAST Search History

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|----------|----------|--------------------------------------|--|----|----|------------------|
| S14 0 | 0 | rlad@<"20001106" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/09/22 11:52 |
| S14 1 | 11244116 | @ad<"20001106" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/09/22 11:53 |
| S14 2 | 371 | S138 and S141 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/09/22 11:53 |
| S14 3 | 86 | S142 and notification | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/09/22 11:54 |
| S14 4 | 143 | S142 and notif\$7 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/09/22 11:59 |
| S14 5 | 86 | S142 and notif\$7 and read and write | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/09/22 11:59 |
| S14 6 | 60 | "6073138" "6862617" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/09/22 13:07 |
| S14 7 | 60 | shar\$3 with file\$3 with violation | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/09/22 13:08 |

EAST Search History

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|----------|-------|---|--|----|----|------------------|
| S14 8 | 11 | S147 and S141 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/09/22 13:58 |
| S14 9 | 46 | (file\$3 near2 application) same (read and write and notification) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/09/22 14:00 |
| S15 0 | 14 | S149 and S141 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/09/22 14:00 |
| S15 1 | 15248 | (file\$3 near2 application) same (read write notificat\$5) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/09/22 14:01 |
| S15 2 | 1883 | S151 and S141 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/09/22 14:02 |
| S15 3 | 15837 | (file\$3 near2 application) same (read write notif\$9) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/09/22 14:01 |
| S15 4 | 37 | (file\$3 near2 application) same ((read write) with notif\$9) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/09/22 14:03 |
| S15 5 | 8 | S154 and S141 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/09/22 14:03 |

EAST Search History

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|----------|----------|---|--|----|----|------------------|
| S15 6 | 1472 | (file\$3 near2 application) and ((read write) with notif\$9) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/09/22 14:04 |
| S15 7 | 491 | S156 and S141 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/09/22 14:04 |
| S15 8 | 1118 | (file\$3 near2 application) and ((read write) near10 notif\$9) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/09/22 14:04 |
| S15 9 | 394 | S158 and S141 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/09/22 14:05 |
| S16 0 | 324 | S159 and (synchron\$7 copy) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/09/22 16:21 |
| S16 1 | 1053 | (monitor\$3 with (read write)) same notif\$8 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/09/22 16:21 |
| S16 2 | 137 | ((monitor\$3 with read) same notif\$8) and ((monitor with write) same notif\$8) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/09/22 16:37 |
| S16 3 | 11244116 | @ad<"20001106" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/09/22 16:23 |

EAST Search History

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|----------|-----|--|--|----|----|------------------|
| S16 4 | 60 | S162 and S163 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/09/22 16:23 |
| S16 5 | 265 | ((monitor\$3 track\$3) with read) same notif\$8) and ((monitor track\$3) with write) same notif\$8 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/09/22 16:37 |
| S16 6 | 118 | S165 and S163 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/09/22 16:38 |
| S16 7 | 58 | S166 not S164 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/09/22 17:28 |
| S16 8 | 169 | "5727202" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/09/22 17:32 |
| S16 9 | 70 | S168 and notif\$8 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/09/22 17:41 |
| S17 0 | 293 | shar\$3 with violation | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/09/22 17:41 |
| S17 1 | 0 | S169 and S170 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/09/22 17:41 |

EAST Search History

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|----------|-----|--|--|----|----|------------------|
| S17 2 | 60 | shar\$3 with file with violation | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/09/22 17:47 |
| S17 3 | 0 | S172 and S168 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/09/22 17:41 |
| S17 4 | 18 | S172 and synchroniz\$5 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/09/22 17:42 |
| S17 5 | 840 | file with violation | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/09/22 17:48 |
| S17 6 | 5 | "6717000" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/09/22 17:47 |
| S17 7 | 3 | "6617000" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/09/22 17:47 |
| S17 8 | 5 | "6671700" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/09/22 17:47 |
| S17 9 | 16 | ("5574859" "5666530" "5713045" "5734886" "5884323" "5928329" "6000000" "6006105" "6035212" "6125369" "6157935" "6295541" "6401104" "6438515" "6477543").PN. OR ("6671700").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/09/22 17:48 |

EAST Search History

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|----------|------|------------------------------------|--|----|----|------------------|
| S18 0 | 0 | S179 and S175 | US-PGPUB; USPAT; USOCR | OR | ON | 2007/09/22 17:48 |
| S18 1 | 293 | shar\$3 with violation | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/09/22 17:48 |
| S18 2 | 35 | S181 and (synchroniz\$5 with data) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/09/22 17:48 |
| S18 3 | 1 | "5884323".pn. and network | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/09/23 18:15 |
| S18 4 | 204 | 719/311 | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/13 15:57 |
| S18 5 | 3431 | 719/31\$ | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/13 15:57 |
| S18 6 | 1696 | 711/152 | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/13 15:57 |
| S18 7 | 1492 | 711/151 | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/13 15:57 |
| S18 8 | 470 | 710/17 | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/13 15:57 |
| S18 9 | 846 | 710/18 | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/13 15:57 |

EAST Search History

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|----------|---------|--|--|----|----|------------------|
| S19 0 | 7431 | 710/5\$ | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/13 16:29 |
| S19 1 | 4892046 | file near2 receive\$3 near\$2 data | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/13 16:34 |
| S19 2 | 2489515 | file near2 receive\$3 near\$2 notification | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/13 16:37 |
| S19 3 | 2476630 | S191 and S192 | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/13 17:42 |
| S19 4 | 13809 | S184 or S185 or S186 or S187 or S188 or S189 or S190 | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/13 16:31 |
| S19 5 | 659638 | @rlad<"20001103" and @ad<"20001103" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/13 16:32 |
| S19 8 | 5470 | file near2 receive\$3 near2 data | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/13 16:37 |
| S19 9 | 163 | file near2 receive\$3 near2 notification | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/13 16:34 |
| S20 4 | 474251 | receive\$3 near2 data | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/13 16:37 |

EAST Search History

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|-----------|----------|---|--|----|----|------------------|
| S20 5 | 5453492 | receive\$3 near\$2 notification | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/13 16:38 |
| S20 6 | 474251 | S204 same S205 | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/13 16:38 |
| S20 7 | 10380 | monitor\$3 with notification | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/13 16:38 |
| S20 8 | 377 | (three near2 flags) and (fil\$3 near2 system) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/13 17:42 |
| S20 9 | 155 | shar\$3 near5 violation | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/21 21:07 |
| S21 0 | 41424 | fil\$3 near5 shar\$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/21 21:39 |
| S21 1 | 70 | S209 and S210 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/21 21:07 |
| S21 2. | 11 | S211 and @ad<"20001103" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/21 21:28 |
| S21 3 | 11541888 | @rlad<"20001103" @ad<"20001103" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/21 21:28 |

EAST Search History

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|----------|-----|--|--|----|----|------------------|
| S21 4 | 24 | S211 and S213 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/21 21:28 |
| S21 5 | 13 | S214 not S212 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/21 21:28 |
| S21 6 | 684 | S210 same (notif\$7) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/21 21:43 |
| S21 7 | 269 | S216 and S213 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/21 22:07 |
| S21 8 | 1 | "6557056".pn. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/21 22:16 |
| S21 9 | 176 | "710"/\$3.ccls. and (indicat\$4 or notif\$5 or notificat\$4) near15 application\$1 near15 (read or write) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/21 22:18 |
| S22 0 | 1 | "710"/\$3.ccls. and (indicat\$4 or notif\$5 or notificat\$4) near15 application\$1 near15 (read or write).ab. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/21 22:18 |
| S22 1 | 104 | "710"/\$3.ccls. and (indicat\$4 or notif\$5 or notificat\$4) near15 application\$1 near15 (read or write) and S213 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/21 22:27 |

EAST Search History

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|----------|--------|--|--|----|----|------------------|
| S22 2 | 9 | "710"/\$3.ccls. and (indicat\$4 or notif\$5 or notificat\$4) near15 application\$1 near15 (read or write) and S213 and "719"/\$3.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/21 22:23 |
| S22 3 | 12 | "710"/\$3.ccls. and (file\$1 or record\$1) near15 (indicat\$4 or notif\$5 or notificat\$4) near15 application\$1 near15 (read or write) and S213 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/21 22:25 |
| S22 4 | 1 | "6557056".pn. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/21 22:32 |
| S22 6 | 5 | "710"/\$3.ccls. and flag\$1 near10 (indicat\$4 or notif\$5 or notificat\$5) near15 application\$1 near15 (read or write\$1) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/21 22:39 |
| S22 7 | 177 | "710"/\$3.ccls. and (indicat\$4 or notif\$5 or notificat\$5) near15 application\$1 near15 (read or write\$1) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/25 14:47 |
| S22 8 | 8883 | ((activat\$3 with deactivate) (on with off)) same device\$1 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/25 14:52 |
| S22 9 | 7790 | ((activat\$3 with deactivate) (turn near2 (on with off))) same device\$1 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/25 14:48 |
| S23 0 | 170297 | (plurality with network) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/25 14:49 |

EAST Search History

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|----------|----------|---|--|----|----|------------------|
| S23 1 | 503 | S229 and S230 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/25 14:49 |
| S23 2 | 13959828 | @ad<"20030610" @rlad<"20030610" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/25 14:49 |
| S23 3 | 307 | S231 and S232 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/25 14:51 |
| S23 4 | 30 | S233 and (home near2 network) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/25 15:10 |
| S23 5 | 72 | (server with ((activat\$3 with deactivate) (on with off))) same device\$1 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/25 14:52 |
| S23 6 | 38 | S235 and S232 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/25 14:52 |
| S23 7 | 304 | (server with ((activat\$3 with deactivate) (on with off))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/25 14:55 |
| S23 8 | 222 | S237 and S232 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/25 14:54 |

EAST Search History

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|----------|----|---|--|----|----|------------------|
| S23 9 | 0 | "1112" and S234 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/25 14:54 |
| S24 0 | 22 | S237 and (home near2 network) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/25 14:54 |
| S24 1 | 39 | (server with ((activat\$3 with deactivate) (on with off))) with device\$1 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/25 14:58 |
| S24 2 | 3 | S241 and S233 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/25 14:55 |
| S24 3 | 16 | S241 and S232 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/25 14:55 |
| S24 4 | 39 | (server with control with ((activat\$3 with deactivate) (on with off))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/25 15:03 |
| S24 5 | 29 | S244 and S232 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/25 14:58 |
| S24 6 | 0 | (server with control with ((on with off))) with device | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/25 15:02 |

EAST Search History

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|----------|--------|--|--|----|----|------------------|
| S24 7 | 11 | (turn near5((on with off))) with device | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/25 15:02 |
| S24 8 | 11 | (turn near5 ((on with off))) with device | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/25 15:02 |
| S24 9 | 11 | S248 and S232 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/25 15:02 |
| S25 0 | 4780 | ((activat\$3 with deactivate) (on with off))) with device\$1 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/25 15:06 |
| S25 1 | 4448 | ((activat\$3 with deactivate))) with device\$1 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/25 15:04 |
| S25 2 | 3202 | S251 and S232 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/25 15:04 |
| S25 3 | 185051 | "455"/\$.ccls. "709"/\$.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/25 15:06 |
| S25 4 | 207 | S252 and S253 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/25 15:06 |

EAST Search History

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|----------|----------|--|--|----|----|------------------|
| S25 5 | 10488 | (((activat\$3 with deactivate) (enable with disable) (on with off)) with device\$1 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/25 15:09 |
| S25 6 | 76274 | (((activat\$3 with deactivate) (enable with disable) (on with off))) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/25 15:09 |
| S25 7 | 55726 | S256 and S232 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/25 15:09 |
| S25 8 | 535 | S257 and (home near2 network) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/25 15:10 |
| S25 9 | 293 | S258 and S230 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/25 15:10 |
| S26 1 | 34 | (read near2 (notification acknowledgement) with (queue stor\$3)) and (write near2 (notification acknowledgement) with (stor\$3 queue)) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 13:19 |
| S26 2 | 11975284 | @ad<"20001106" @rlad<"20061106" | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 13:14 |
| S26 3 | 14 | S261 and S262 | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 13:15 |
| S26 4 | 11448678 | @ad<"20001106" @rlad<"20001106" | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 13:14 |

EAST Search History

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|----------|------|--|---|----|----|------------------|
| S26 5 | 14 | S261 and S263 | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 13:15 |
| S26 6 | 4 | S261 and S264 | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 13:15 |
| S26 7 | 34 | (read near2 (notification acknowledgement) with (queue stor\$3 sav\$3)) and (write near2 (notification acknowledgement) with (stor\$3 queue sav\$3)) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 13:20 |
| S26 8 | 34 | (read near2 (notification acknowledgement) with (queu\$3 stor\$3 sav\$3)) and (write near2 (notification acknowledgement) with (stor\$3 queu\$3 sav\$3)) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 13:20 |
| S26 9 | 4 | S268 and S264 | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 13:20 |
| S27 0 | 227 | (read near10 (notification acknowledgement) with (queue stor\$3 sav\$3)) and (write near10 (notification acknowledgement) with (stor\$3 queue sav\$3)) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 13:20 |
| S27 1 | 117 | S270 and S264 | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 16:29 |
| S27 2 | 18 | (receiv\$3 near2 (notification acknowledgement ack)) with (file near2 read) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 16:52 |
| S27 3 | 6704 | (synchroniz\$4 asynchron\$6) with database | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 17:09 |
| S27 4 | 0 | S273 and S272 | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 16:33 |

EAST Search History

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|----------|----------|--|---|----|----|------------------|
| S27 5 | 11 | (receiv\$3 near2 (notification acknowledgement ack)) with (file near2 write) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 16:37 |
| S27 6 | 6 | S272 and S275 | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 16:36 |
| S27 7 | 11448678 | @ad<"20001106" @rlad<"20001106" | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 16:36 |
| S27 8 | 11448678 | S277 | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 16:37 |
| S27 9 | 0 | S276 and S278 | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 16:37 |
| S28 0 | 2628 | (receiv\$3 with read with (notification acknowledgement ack)) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 16:37 |
| S28 1 | 1733 | (receiv\$3 with write with (notification acknowledgement ack)) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 16:38 |
| S28 2 | 550 | S280 and S281 | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 16:41 |
| S28 3 | 2093 | notification near2 (sav\$3 queued stored) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 16:38 |
| S28 4 | 20 | S282 and S283 | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 16:39 |

EAST Search History

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|----------|--------|--|---|----|----|------------------|
| S28 5 | 0 | S284 and S273 | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 16:39 |
| S28 6 | 234 | S282 and S277 | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 16:42 |
| S28 7 | 1 | S286 and S273 | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 16:42 |
| S28 9 | 182905 | (synchroniz\$4 asynchron\$6) with (database data file device) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 17:21 |
| S29 0 | 1906 | (receiv\$3 near2 (notification acknowledgement ack flag mark)) with (read) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 16:43 |
| S29 1 | 1333 | (receiv\$3 near2 (notification acknowledgement ack flag mark)) with (write) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 16:44 |
| S29 2 | 73 | S289 and S290 and S291 and S277 | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 16:44 |
| S29 3 | 3 | (file queue) with (receiv\$3 near2 (notification acknowledgement ack)) with ((read write) near2 event) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 16:53 |
| S29 4 | 1724 | (read near2 (flag notification)) and (write near2 (flag notification)) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 17:17 |
| S29 5 | 67 | S273 and S294 | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 17:10 |

EAST Search History

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|----------|--------|--|---|----|----|------------------|
| S29 6 | 50 | S295 and S277 | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 17:10 |
| S29 7 | 43646 | (flag notification) near5 (queue\$1 sav\$3 stor\$3) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 17:11 |
| S29 8 | 12 | S296 and S297 | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 17:11 |
| S29 9 | 112 | (read near5 (data content file) near5 (receiv\$3) near5 (flag notification)) and (write near5 (data content file) near5 (flag notification)) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 17:18 |
| S30 0 | 50 | S289 and S299 | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 17:18 |
| S30 1 | 27 | S300 and S277 | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 17:18 |
| S30 2 | 144345 | synchroniz\$4 with (database data file device) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 17:23 |
| S30 3 | 81164 | S302 and S277 | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 17:21 |
| S30 4 | 19 | S299 and S303 | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 17:22 |
| S30 5 | 148113 | synchroniz\$4 with (database\$1 data file\$1 device\$1) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 17:56 |

EAST Search History

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|----------|-------|--|---|----|----|------------------|
| S30 6 | 22097 | read near10 (notification flag) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 17:23 |
| S30 7 | 12144 | write near10 (notification flag) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 17:24 |
| S30 8 | 2204 | flag near2 (sav\$2 queue\$1) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 20:07 |
| S30 9 | 86 | S305 and S306 and S307 and S308 | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 17:24 |
| S31 0 | 76 | S309 and S277 | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 17:35 |
| S31 1 | 1 | "6862617".pn. | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 17:36 |
| S31 2 | 34 | ("5392390" "5630081" "5684990" "5701423" "5710922" "5727202" "5729735" "5754306" "5774717" "5845293" "5884323" "5887145" "5897640" "6000000" "6052735" "6125369" "6243705" "6272545" "6275831" "6295541" "6317797" "6324544" "6330568" "6330618" "6370566" "6442570" "6457062" "6463427" "6633924").PN. OR ("6862617").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/26 17:49 |
| S31 3 | 0 | S312 and S277 and (sav\$3 near2 notification) | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/26 17:37 |
| S31 4 | 0 | S312 and S277 and ((sav\$3 queue\$1) near2 notification) | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/26 17:37 |

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| S31 5 | 29 | S312 and S277 | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/26 17:37 |
| S31 6 | 0 | S315 and (receiv\$3 near2 write near2 notification) | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/26 17:38 |
| S31 7 | 145 | (receiv\$3 near2 write near2 notification) | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/26 17:38 |
| S31 8 | 40 | S277 and (receiv\$3 near2 write near2 notification) | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/26 17:39 |
| S31 9 | 4 | S277 and (receiv\$3 near2 write near2 complete near2 notification) | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/26 17:40 |
| S32 0 | 0 | S277 and (stor\$3 near2 write near2 complete near2 notification) | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/26 17:40 |
| S32 1 | 0 | S277 and (sav\$3 near2 write near2 complete near2 notification) | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/26 17:41 |
| S32 2 | 0 | S277 and (queue near2 write near2 complete near2 notification) | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/26 17:41 |
| S32 3 | 0 | S277 and (queue near2 write near2 notification) | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/26 17:41 |
| S32 4 | 1350 | 709/328 | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/26 17:49 |
| S32 5 | 20855 | 709/328 709/224 707/8 707/201 709/248 | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/26 17:53 |
| S32 6 | 35741 | 709/328 709/224 707/8 707/201 709/248 709/228 707/10 709/236 | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/26 17:55 |
| S32 7 | 34379 | S326 and (log stor\$3 sav\$3 with (notification)) | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/26 17:56 |
| S32 8 | 1971 | S326 and ((log stor\$3 sav\$3) with (notification)) | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/26 17:56 |
| S32 9 | 1524 | S326 and ((log stor\$3 sav\$3) near10 (notification)) | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/26 17:56 |

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| S33 0 | 635 | S326 and ((log stor\$3 sav\$3) near10 (notification)) and (read and write) | US-PGPUB; USPAT; USOCR | OR | ON | 2007/10/26 17:56 |
| S33 1 | 430253 | synchroniz\$4 | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 17:56 |
| S33 2 | 239 | S330 and S331 | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 17:57 |
| S33 3 | 142 | S332 and S277 | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 18:07 |
| S33 4 | 0 | S333 and (prevent near2 overwrite) | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 18:21 |
| S33 5 | 1 | "6370566".pn. and log | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 18:23 |
| S33 6 | 0 | "7003587".pn. and log | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 18:23 |
| S33 7 | 1 | "7003587".pn. and notification | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 18:23 |
| S33 8 | 71 | "5794229" | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/10/26 20:18 |
| S33 9 | 0 | "7003587,pn." and synchroniz\$3 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/27 20:08 |

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| S34 2 | 0 | "7003587,pn." and synchroniz\$6 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/27 20:08 |
| S34 3 | 1 | "7003587".pn. and synchronization | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/10/27 20:09 |
| S34 4 | 9622 | (synchroniz\$3) and (shar\$3 near2 memory) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/11/07 17:22 |
| S34 5 | 1186 | monitor\$3 with (shar\$3 near2 memory) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/11/07 17:22 |
| S34 6 | 372 | S344 and S345 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/11/07 17:22 |
| S34 7 | 11459922 | @ad<"20001106" @rlad<"20001106" | US-PGPUB; USPAT; USOCR; EPO; JPO; IBM_TDB | OR | ON | 2007/11/07 17:22 |

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| S34 8 | 235 | S346 and S347 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; IBM_TDB | OR | ON | 2007/11/07 17:23 |
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Relevance scale **1** [Mobile data management: Mimic: raw activity shipping for file synchronization in mobile file systems](#)

Tae-Young Chang, Aravind Velayutham, Raghupathy Sivakumar

June 2004 **Proceedings of the 2nd international conference on Mobile systems, applications, and services MobiSys '04****Publisher:** ACM PressFull text available:  [pdf\(334.54 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we consider the problem of file synchronization when a mobile host shares files with a backbone file server in a network file system. Several *diff* schemes have been proposed to improve upon the transfer overheads of conventional file synchronization approaches which use full file transfer. These schemes compute the binary *diff* of the new file with respect to the old copy at the server and transfer the computed *diff* to the server for file-synchronization. Howev ...

Keywords: file synchronization, mobile file system, raw activity shipping**2** [Cryptography and data security](#)Dorothy Elizabeth Robling Denning
January 1982 Book**Publisher:** Addison-Wesley Longman Publishing Co., Inc.Full text available:  [pdf\(19.47 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)**From the Preface (See Front Matter for full Preface)**

Electronic computers have evolved from exiguous experimental enterprises in the 1940s to prolific practical data processing systems in the 1980s. As we have come to rely on these systems to process and store data, we have also come to wonder about their ability to protect valuable data.

Data security is the science and study of methods of protecting data in computer and communication systems from unauthorized disclosure ...

3 [On-line data compression in a log-structured file system](#)

Michael Burrows, Charles Jerian, Butler Lampson, Timothy Mann

September 1992 **ACM SIGPLAN Notices , Proceedings of the fifth international conference on Architectural support for programming languages and operating systems ASPLOS-V**, Volume 27 Issue 9

Publisher: ACM Press

Full text available: [pdf\(1.02 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

4 High-performance remote access to climate simulation data: a challenge problem for data grid technologies 

Bill Allcock, Ian Foster, Veronika Nefedova, Ann Chervenak, Ewa Deelman, Carl Kesselman, Jason Lee, Alex Sim, Arie Shoshani, Bob Drach, Dean Williams

November 2001 **Proceedings of the 2001 ACM/IEEE conference on Supercomputing (CDROM) Supercomputing '01**

Publisher: ACM Press

Full text available: [pdf\(1.19 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In numerous scientific disciplines, terabyte and soon petabyte-scale data collections are emerging as critical community resources. A new class of Data Grid infrastructure is required to support management, transport, distributed access to, and analysis of these datasets by potentially thousands of users. Researchers who face this challenge include the Climate Modeling community, which performs long-duration computations accompanied by frequent output of very large files that must be further ana ...

5 A taxonomy of Data Grids for distributed data sharing, management, and processing 

Srikumar Venugopal, Rajkumar Buyya, Kotagiri Ramamohanarao

June 2006 **ACM Computing Surveys (CSUR)**, Volume 38 Issue 1

Publisher: ACM Press

Full text available: [pdf\(1.70 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Data Grids have been adopted as the next generation platform by many scientific communities that need to share, access, transport, process, and manage large data collections distributed worldwide. They combine high-end computing technologies with high-performance networking and wide-area storage management techniques. In this article, we discuss the key concepts behind Data Grids and compare them with other data sharing and distribution paradigms such as content delivery networks, peer-to-peer n ...

Keywords: Grid computing, data-intensive applications, replica management, virtual organizations

6 Monitoring data archives for grid environments 

Jason Lee, Dan Gunter, Martin Stouffer, Brian Tierney

November 2002 **Proceedings of the 2002 ACM/IEEE conference on Supercomputing Supercomputing '02**

Publisher: IEEE Computer Society Press

Full text available: [pdf\(107.31 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Developers and users of high-performance distributed systems often observe performance problems such as unexpectedly low throughput or high latency. To determine the source of these performance problems, detailed end-to-end monitoring data from applications, networks, operating systems, and hardware must be correlated across time and space. Researchers need to be able to view and compare this very detailed monitoring data from a variety of angles. To address this problem, we propose a relational ...

7 Data transfer performance issues for a web services interface to synchrotron experiments 

 Donglai Zhang, Paul Coddington, Andrew Wendelborn

June 2007 **Proceedings of the 2007 workshop on Service-oriented computing performance: aspects, issues, and approaches SOCP '07**

Publisher: ACM Press

Full text available:  pdf(354.53 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Common Instrument Middleware Architecture (CIMA) defines a web services interface to scientific instruments. We have been experimenting with the use of CIMA web services for remote monitoring of synchrotron experiments and real-time data download, processing and storage. Here we discuss some performance issues with data transfer using CIMA web services, particularly for long-distance, high-latency transfers. We explore alternative approaches for improving the performance and robustness of ...

Keywords: CIMA, data transfer, remote instrument access, web services performance

8 Scheduling: Data driven workflow planning in cluster management systems 

 Srinath Shankar, David J. DeWitt

June 2007 **Proceedings of the 16th international symposium on High performance distributed computing HPDC '07**

Publisher: ACM Press

Full text available:  pdf(332.82 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Traditional scientific computing has been associated with harnessing computation cycles within and across clusters of machines. In recent years, scientific applications have become increasingly data-intensive. This is especially true in the fields of astronomy and high energy physics. Furthermore, the lowered cost of disks and commodity machines has led to a dramatic increase in the amount of free disk space spread across machines in a cluster. This space is not being exploited by traditional ...

Keywords: cluster management, condor, data management, planning, scheduling, scientific computing, workflow management

9 A data acquisition and information handling system in Ada for electron spectroscopy 

 M. Carlsson, L. Asplund

July 1989 **ACM SIGAda Ada Letters**, Volume IX Issue 5

Publisher: ACM Press

Full text available:  pdf(1.07 MB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

A distributed, real time, data acquisition computer system for electron spectroscopy, ESCA, is presented. The design and implementation in Ada involves windowing, menus, forms, graphical presentation, multitasking and instrumental communication. Our experience using Ada is discussed. Ada has been used in all phases. Data types and packages are presented. It is found that the language is very suitable for scientific purposes.

10 Efficient indexing data structures for flash-based sensor devices 

 Song Lin, Demetrios Zeinalipour-Yazti, Vana Kalogeraki, Dimitrios Gunopulos, Walid A. Najjar November 2006 **ACM Transactions on Storage (TOS)**, Volume 2 Issue 4

Publisher: ACM Press

Full text available:  pdf(1.45 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Flash memory is the most prevalent storage medium found on modern *wireless sensor devices (WSDs)*. In this article we present two external memory index structures for the

efficient retrieval of records stored on the local flash memory of a WSD. Our index structures, *MicroHash* and *MicroGF* (*micro grid files*), exploit the asymmetric read/write and wear characteristics of flash memory in order to offer high-performance indexing and searching capabilities in the presence of a low- ...

Keywords: Wireless sensor networks, access methods, flash memory

11 Adaptive performance prediction for distributed data-intensive applications

 Marcio Faerman, Alan Su, Richard Wolski, Francine Berman

January 1999 **Proceedings of the 1999 ACM/IEEE conference on Supercomputing (CDROM) Supercomputing '99**

Publisher: ACM Press

Full text available:  [pdf\(292.25 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



12 Distributed systems and grid computing (DSGC): Implementation of a dynamic

adjustment mechanism with efficient replica selection in data grid environments

 Chao-Tung Yang, I-Hsien Yang, Chun-Hsiang Chen, Shih-Yu Wang

April 2006 **Proceedings of the 2006 ACM symposium on Applied computing SAC '06**

Publisher: ACM Press

Full text available:  [pdf\(402.77 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The co-allocation architecture was developed in order to enable parallel downloading of datasets from multiple servers. Several co-allocation strategies have been coupled and used to exploit rate differences among various client-server links and to address dynamic rate fluctuations by dividing files into multiple blocks of equal sizes. However, a major obstacle, the idle time of faster servers having to wait for the slowest server to deliver the final block, makes it important to reduce differen ...

Keywords: GridFTP, co-allocation, data grid, data transfer, globus, grid computing, replica selection



13 Access Control Models and Mechanisms: Cryptographic access control in a

distributed file system

 Anthony Harrington, Christian Jensen

June 2003 **Proceedings of the eighth ACM symposium on Access control models and technologies SACMAT '03**

Publisher: ACM Press

Full text available:  [pdf\(249.24 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Traditional access control mechanisms rely on a reference monitor to mediate access to protected resources. Reference monitors are inherently centralized and existing attempts to distribute the functionality of the reference monitor suffer from problems of scalability. Cryptographic access control is a new distributed access control paradigm designed for a global federation of information systems. It defines an implicit access control mechanism, which relies exclusively on cryptography to provide ...

Keywords: access control, cryptography, network file systems



14 Applications: Data warehouse processing and query by mail

Ken Gordon

September 1996 **ACM SIGAPL APL Quote Quad**, Volume 27 Issue 1

Publisher: ACM Press

Full text available: [pdf\(672.37 KB\)](#) Additional Information: [full citation](#), [abstract](#)

Much effort in I/S is currently going into creating "Data Warehouses." These are stores of data periodically extracted from older legacy applications, converted to common standards and made accessible for user analysis. The warehouse acts as a WORM (Write Once, Read Many times) storage. Where the extract and transfer is performed nightly, they provide access to what is termed "Near Operational" data and can be used to replace much of the existing reporting. In other cases they are used to store ...

15 Potential benefits of delta encoding and data compression for HTTP

September 1997 Jeffrey C. Mogul, Fred Douglis, Anja Feldmann, Balachander Krishnamurthy

October 1997 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM '97 conference on Applications, technologies, architectures, and protocols for computer communication SIGCOMM '97**, Volume 27 Issue 4

Publisher: ACM Press

Full text available: [pdf\(2.00 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Caching in the World Wide Web currently follows a naive model, which assumes that resources are referenced many times between changes. The model also provides no way to update a cache entry if a resource does change, except by transferring the resource's entire new value. Several previous papers have proposed updating cache entries by transferring only the differences, or "delta," between the cached entry and the current value. In this paper, we make use of dynamic traces of the full contents of ...

16 Grid -Based Parallel Data Streaming implemented for the Gyrokinetic Toroidal Code

S. Klasky, S. Ethier, Z. Lin, K. Martins, D. McCune, R. Samtaney

November 2003 **Proceedings of the 2003 ACM/IEEE conference on Supercomputing SC '03**

Publisher: IEEE Computer Society

Full text available: [pdf\(335.48 KB\)](#) Additional Information: [full citation](#), [abstract](#)

We have developed a threaded parallel data streaming approach using Globus to transfer multi-terabyte simulation data from a remote supercomputer to the scientist's home analysis/visualization cluster, as the simulation executes, with negligible overhead. Data transfer experiments show that this concurrent data transfer approach is more favorable compared with writing to local disk and then transferring this data to be post-processed. The present approach is conducive to using the grid to pipeline ...

17 Fifth Australasian Symposium on Grid Computing and e-Research (AusGrid 2007): Storage and data management in EGEE

Graeme A Stewart, David Cameron, Greig A Cowan, Gavin McCance

January 2007 **Proceedings of the fifth Australasian symposium on ACSW frontiers - Volume 68 ACSW '07**

Publisher: Australian Computer Society, Inc.

Full text available: [pdf\(617.55 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Distributed management of data is one of the most important problems facing grids. Within the Enabling Grids for Enabling eScience (EGEE) project, currently the world's largest production grid, a sophisticated hierarchy of data management and storage tools have been developed to help Virtual Organisations (VOs) with this task.

In this paper we review the technologies employed for storage and data management in EGEE, and the associated Worldwide LHC Computing Grid (WLCG). We describe ...

Keywords: data management, grid computing, grid storage

18 Applications & security policy: A novel approach for a file-system integrity monitor 

 tool of Xen virtual machine

Nguyen Anh Quynh, Yoshiyasu Takefuji

March 2007 **Proceedings of the 2nd ACM symposium on Information, computer and communications security ASIACCS '07**

Publisher: ACM Press

Full text available:  [pdf\(253.86 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

File-system integrity tools (FIT) are commonly deployed host-based intrusion detections (HIDS) tool to detect unauthorized file-system changes. While FIT are widely used, this kind of HIDS has many drawbacks: the intrusion detection is not done in real-time manner, which might render the whole scheme useless if the attacker can somehow take over the system with privileged access in the time between. The administrator also has a lot of problems to keep the base-line database updating. Besides, ...

Keywords: Linux, Xen virtual machine, intrusion detection, rootkit

19 Keep your data safe and available while roaming 

Yolanda Villate, Arantza Illarramendi, Evaggelia Pitoura

August 2002 **Mobile Networks and Applications**, Volume 7 Issue 4

Publisher: Kluwer Academic Publishers

Full text available:  [pdf\(314.83 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The possibility of accessing and/or receiving local or remote data anywhere and at anytime constitutes an important advantage in many business environments. However, when working with mobile devices, users face many problems, such as: (1) *device exposure problems* --- mobile devices are more vulnerable and fragile than stationary devices, because they can be easily stolen, lost or damaged, (2) *media problems* --- wireless communications are often unstable, asymmetric and expensive, a ...

Keywords: data storage, mobile computing, multi-agents systems, wireless services

20 A comparison of system monitoring methods, passive network monitoring and kernel 

 instrumentation

A. W. Moore, A. J. McGregor, J. W. Breen

January 1996 **ACM SIGOPS Operating Systems Review**, Volume 30 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(1.89 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This paper presents the comparison of two methods of system monitoring, passive network monitoring and kernel instrumentation. The comparison is made on the basis of passive network monitoring being used as a replacement for kernel instrumentation in some situations. Despite the fact that the passive network monitoring technique is shown to perform poorly as a direct replacement for kernel instrumentation, this paper indicates the areas where passive network monitoring could be used to the great ...

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1. **Elephant: the file system that never forgets**
 Santry, D.J.; Feeley, M.J.; Hutchinson, N.C.; Veitch, A.C.;
Hot Topics in Operating Systems, 1999. Proceedings of the Seventh Workshop on
 29-30 March 1999 Page(s):2 - 7
 Digital Object Identifier 10.1109/HOTOS.1999.798369
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2. **Content based file type detection algorithms**
 McDaniel, M.; Heydari, M.H.;
System Sciences, 2003. Proceedings of the 36th Annual Hawaii International Conference on
 6-9 Jan 2003 Page(s):10 pp.
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AbstractPlus | Full Text: [PDF\(578 KB\)](#) [IEEE CNF](#)
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IEEE CNF IEEE Conference Proceeding

3. **Accessing files in an Internet: the Jade file system**
 Rao, H.C.; Peterson, L.L.;
Software Engineering, IEEE Transactions on
 Volume 19, Issue 6, June 1993 Page(s):613 - 624
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1 Mobile data management: Mimic: raw activity shipping for file synchronization in mobile file systems

Tae-Young Chang, Aravind Velayutham, Raghupathy Sivakumar

 June 2004 **Proceedings of the 2nd international conference on Mobile systems, applications, and services MobiSys '04**
Publisher: ACM Press

 Full text available: [pdf\(334.54 KB\)](#) Additional Information: full citation, abstract, references, index terms

In this paper, we consider the problem of file synchronization when a mobile host shares files with a backbone file server in a network file system. Several *diff* schemes have been proposed to improve upon the transfer overheads of conventional file synchronization approaches which use full file transfer. These schemes compute the binary *diff* of the new file with respect to the old copy at the server and transfer the computed *diff* to the server for file-synchronization. Howev ...

Keywords: file synchronization, mobile file system, raw activity shipping


2 Cryptography and data security

 Dorothy Elizabeth Robling Denning
 January 1982 Book

Publisher: Addison-Wesley Longman Publishing Co., Inc.

 Full text available: [pdf\(19.47 MB\)](#) Additional Information: full citation, abstract, references, cited by, index terms

From the Preface (See Front Matter for full Preface)

Electronic computers have evolved from exiguous experimental enterprises in the 1940s to prolific practical data processing systems in the 1980s. As we have come to rely on these systems to process and store data, we have also come to wonder about their ability to protect valuable data.

Data security is the science and study of methods of protecting data in computer and communication systems from unauthorized disclosure ...



3 On-line data compression in a log-structured file system

Michael Burrows, Charles Jerian, Butler Lampson, Timothy Mann



September 1992 **ACM SIGPLAN Notices , Proceedings of the fifth international conference on Architectural support for programming languages and operating systems ASPLOS-V**, Volume 27 Issue 9

Publisher: ACM Press

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4 High-performance remote access to climate simulation data: a challenge problem for data grid technologies 

Bill Allcock, Ian Foster, Veronika Nefedova, Ann Chervenak, Ewa Deelman, Carl Kesselman, Jason Lee, Alex Sim, Arie Shoshani, Bob Drach, Dean Williams

November 2001 **Proceedings of the 2001 ACM/IEEE conference on Supercomputing (CDROM) Supercomputing '01**

Publisher: ACM Press

Full text available:  pdf(1.19 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In numerous scientific disciplines, terabyte and soon petabyte-scale data collections are emerging as critical community resources. A new class of Data Grid infrastructure is required to support management, transport, distributed access to, and analysis of these datasets by potentially thousands of users. Researchers who face this challenge include the Climate Modeling community, which performs long-duration computations accompanied by frequent output of very large files that must be further ana ...

5 A taxonomy of Data Grids for distributed data sharing, management, and processing 

Srikumar Venugopal, Rajkumar Buyya, Kotagiri Ramamohanarao

June 2006 **ACM Computing Surveys (CSUR)**, Volume 38 Issue 1

Publisher: ACM Press

Full text available:  pdf(1.70 MB)

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Data Grids have been adopted as the next generation platform by many scientific communities that need to share, access, transport, process, and manage large data collections distributed worldwide. They combine high-end computing technologies with high-performance networking and wide-area storage management techniques. In this article, we discuss the key concepts behind Data Grids and compare them with other data sharing and distribution paradigms such as content delivery networks, peer-to-peer n ...

Keywords: Grid computing, data-intensive applications, replica management, virtual organizations

6 Monitoring data archives for grid environments 

Jason Lee, Dan Gunter, Martin Stoufer, Brian Tierney

November 2002 **Proceedings of the 2002 ACM/IEEE conference on Supercomputing Supercomputing '02**

Publisher: IEEE Computer Society Press

Full text available:  pdf(107.31 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Developers and users of high-performance distributed systems often observe performance problems such as unexpectedly low throughput or high latency. To determine the source of these performance problems, detailed end-to-end monitoring data from applications, networks, operating systems, and hardware must be correlated across time and space. Researchers need to be able to view and compare this very detailed monitoring data from a variety of angles. To address this problem, we propose a relational ...

7 Data transfer performance issues for a web services interface to synchrotron experiments



Donglai Zhang, Paul Coddington, Andrew Wendelborn

June 2007 **Proceedings of the 2007 workshop on Service-oriented computing performance: aspects, issues, and approaches SOCP '07**

Publisher: ACM Press

Full text available: [pdf\(354.53 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The Common Instrument Middleware Architecture (CIMA) defines a web services interface to scientific instruments. We have been experimenting with the use of CIMA web services for remote monitoring of synchrotron experiments and real-time data download, processing and storage. Here we discuss some performance issues with data transfer using CIMA web services, particularly for long-distance, high-latency transfers. We explore alternative approaches for improving the performance and robustness of ...

Keywords: CIMA, data transfer, remote instrument access, web services performance

8 Scheduling: Data driven workflow planning in cluster management systems



Srinath Shankar, David J. DeWitt

June 2007 **Proceedings of the 16th international symposium on High performance distributed computing HPDC '07**

Publisher: ACM Press

Full text available: [pdf\(332.82 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Traditional scientific computing has been associated with harnessing computation cycles within and across clusters of machines. In recent years, scientific applications have become increasingly data-intensive. This is especially true in the fields of astronomy and high energy physics. Furthermore, the lowered cost of disks and commodity machines has led to a dramatic increase in the amount of free disk space spread across machines in a cluster. This space is not being exploited by traditional ...

Keywords: cluster management, condor, data management, planning, scheduling, scientific computing, workflow management

9 A data acquisition and information handling system in Ada for electron spectroscopy



M. Carlsson, L. Asplund

July 1989 **ACM SIGAda Ada Letters**, Volume IX Issue 5

Publisher: ACM Press

Full text available: [pdf\(1.07 MB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

A distributed, real time, data acquisition computer system for electron spectroscopy, ESCA, is presented. The design and implementation in Ada involves windowing, menus, forms, graphical presentation, multitasking and instrumental communication. Our experience using Ada is discussed. Ada has been used in all phases. Data types and packages are presented. It is found that the language is very suitable for scientific purposes.

10 Efficient indexing data structures for flash-based sensor devices



Song Lin, Demetrios Zeinalipour-Yazti, Vana Kalogeraki, Dimitrios Gunopulos, Walid A. Najjar November 2006 **ACM Transactions on Storage (TOS)**, Volume 2 Issue 4

Publisher: ACM Press

Full text available: [pdf\(1.45 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Flash memory is the most prevalent storage medium found on modern *wireless sensor devices (WSDs)*. In this article we present two external memory index structures for the

efficient retrieval of records stored on the local flash memory of a WSD. Our index structures, *MicroHash* and *MicroGF* (*micro grid files*), exploit the asymmetric read/write and wear characteristics of flash memory in order to offer high-performance indexing and searching capabilities in the presence of a low- ...

Keywords: Wireless sensor networks, access methods, flash memory

11 Adaptive performance prediction for distributed data-intensive applications

 Marcio Faerman, Alan Su, Richard Wolski, Francine Berman

January 1999 **Proceedings of the 1999 ACM/IEEE conference on Supercomputing (CDROM) Supercomputing '99**

Publisher: ACM Press

Full text available:  pdf(292.25 KB) Additional Information: full citation, references, citations, index terms



12 Distributed systems and grid computing (DSGC): Implementation of a dynamic

 adjustment mechanism with efficient replica selection in data grid environments

Chao-Tung Yang, I-Hsien Yang, Chun-Hsiang Chen, Shih-Yu Wang

April 2006 **Proceedings of the 2006 ACM symposium on Applied computing SAC '06**

Publisher: ACM Press

Full text available:  pdf(402.77 KB) Additional Information: full citation, abstract, references, index terms



The co-allocation architecture was developed in order to enable parallel downloading of datasets from multiple servers. Several co-allocation strategies have been coupled and used to exploit rate differences among various client-server links and to address dynamic rate fluctuations by dividing files into multiple blocks of equal sizes. However, a major obstacle, the idle time of faster servers having to wait for the slowest server to deliver the final block, makes it important to reduce differen ...

Keywords: GridFTP, co-allocation, data grid, data transfer, globus, grid computing, replica selection

13 Access Control Models and Mechanisms: Cryptographic access control in a

 distributed file system

Anthony Harrington, Christian Jensen

June 2003 **Proceedings of the eighth ACM symposium on Access control models and technologies SACMAT '03**

Publisher: ACM Press

Full text available:  pdf(249.24 KB) Additional Information: full citation, abstract, references, citations, index terms



Traditional access control mechanisms rely on a reference monitor to mediate access to protected resources. Reference monitors are inherently centralized and existing attempts to distribute the functionality of the reference monitor suffer from problems of scalability. Cryptographic access control is a new distributed access control paradigm designed for a global federation of information systems. It defines an implicit access control mechanism, which relies exclusively on cryptography to provide ...

Keywords: access control, cryptography, network file systems

14 Applications: Data warehouse processing and query by mail

Ken Gordon



September 1996 **ACM SIGAPL APL Quote Quad**, Volume 27 Issue 1

 **Publisher:** ACM Press

Full text available:  pdf(672.37 KB) Additional Information: [full citation](#), [abstract](#)

Much effort in I/S is currently going into creating "Data Warehouses." These are stores of data periodically extracted from older legacy applications, converted to common standards and made accessible for user analysis. The warehouse acts as a WORM (Write Once, Read Many times) storage. Where the extract and transfer is performed nightly, they provide access to what is termed "Near Operational" data and can be used to replace much of the existing reporting. In other cases they are used to store ...

15 Potential benefits of delta encoding and data compression for HTTP 

 Jeffrey C. Mogul, Fred Douglis, Anja Feldmann, Balachander Krishnamurthy

October 1997 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM '97 conference on Applications, technologies, architectures, and protocols for computer communication SIGCOMM '97**, Volume 27 Issue 4

Publisher: ACM Press

Full text available:  pdf(2.00 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Caching in the World Wide Web currently follows a naive model, which assumes that resources are referenced many times between changes. The model also provides no way to update a cache entry if a resource does change, except by transferring the resource's entire new value. Several previous papers have proposed updating cache entries by transferring only the differences, or "delta," between the cached entry and the current value. In this paper, we make use of dynamic traces of the full contents of ...

16 Grid -Based Parallel Data Streaming implemented for the Gyrokinetic Toroidal Code 

S. Klasky, S. Ethier, Z. Lin, K. Martins, D. McCune, R. Samtaney

November 2003 **Proceedings of the 2003 ACM/IEEE conference on Supercomputing SC '03**

Publisher: IEEE Computer Society

Full text available:  pdf(335.48 KB) Additional Information: [full citation](#), [abstract](#)

We have developed a threaded parallel data streaming approach using Globus to transfer multi-terabyte simulation data from a remote supercomputer to the scientist's home analysis/visualization cluster, as the simulation executes, with negligible overhead. Data transfer experiments show that this concurrent data transfer approach is more favorable compared with writing to local disk and then transferring this data to be post-processed. The present approach is conducive to using the grid to pipeline ...

17 Fifth Australasian Symposium on Grid Computing and e-Research (AusGrid 2007): Storage and data management in EGEE 

Graeme A Stewart, David Cameron, Greig A Cowan, Gavin McCance

January 2007 **Proceedings of the fifth Australasian symposium on ACSW frontiers - Volume 68 ACSW '07**

Publisher: Australian Computer Society, Inc.

Full text available:  pdf(617.55 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Distributed management of data is one of the most important problems facing grids. Within the Enabling Grids for Enabling eScience (EGEE) project, currently the world's largest production grid, a sophisticated hierarchy of data management and storage tools have been developed to help Virtual Organisations (VOs) with this task.

In this paper we review the technologies employed for storage and data management in EGEE, and the associated Worldwide LHC Computing Grid (WLCG). We describe ...

Keywords: data management, grid computing, grid storage

18 [Applications & security policy: A novel approach for a file-system integrity monitor tool of Xen virtual machine](#)

Nguyen Anh Quynh, Yoshiyasu Takefuji

March 2007 **Proceedings of the 2nd ACM symposium on Information, computer and communications security ASIACCS '07**

Publisher: ACM Press

Full text available: [pdf\(253.86 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

File-system integrity tools (FIT) are commonly deployed host-based intrusion detections (HIDS) tool to detect unauthorized file-system changes. While FIT are widely used, this kind of HIDS has many drawbacks: the intrusion detection is not done in real-time manner, which might render the whole scheme useless if the attacker can somehow take over the system with privileged access in the time between. The administrator also has a lot of problems to keep the base-line database updating. Besides, ...

Keywords: Linux, Xen virtual machine, intrusion detection, rootkit

19 [Keep your data safe and available while roaming](#)

Yolanda Villate, Arantza Illarramendi, Evangelia Pitoura

August 2002 **Mobile Networks and Applications**, Volume 7 Issue 4

Publisher: Kluwer Academic Publishers

Full text available: [pdf\(314.83 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The possibility of accessing and/or receiving local or remote data anywhere and at anytime constitutes an important advantage in many business environments. However, when working with mobile devices, users face many problems, such as: (1) *device exposure problems* --- mobile devices are more vulnerable and fragile than stationary devices, because they can be easily stolen, lost or damaged, (2) *media problems* --- wireless communications are often unstable, asymmetric and expensive, a ...

Keywords: data storage, mobile computing, multi-agents systems, wireless services

20 [A comparison of system monitoring methods, passive network monitoring and kernel instrumentation](#)

A. W. Moore, A. J. McGregor, J. W. Breen

January 1996 **ACM SIGOPS Operating Systems Review**, Volume 30 Issue 1

Publisher: ACM Press

Full text available: [pdf\(1.89 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This paper presents the comparison of two methods of system monitoring, passive network monitoring and kernel instrumentation. The comparison is made on the basis of passive network monitoring being used as a replacement for kernel instrumentation in some situations. Despite the fact that the passive network monitoring technique is shown to perform poorly as a direct replacement for kernel instrumentation, this paper indicates the areas where passive network monitoring could be used to the great ...

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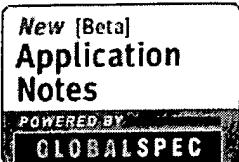

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IEEE JNL IEEE Journal or Magazine

1. **Elephant: the file system that never forgets**
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IET JNL IET Journal or Magazine

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IEEE CNF IEEE Conference Proceeding

2. **Content based file type detection algorithms**
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IET CNF IET Conference Proceeding

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IEEE STD IEEE Standard

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